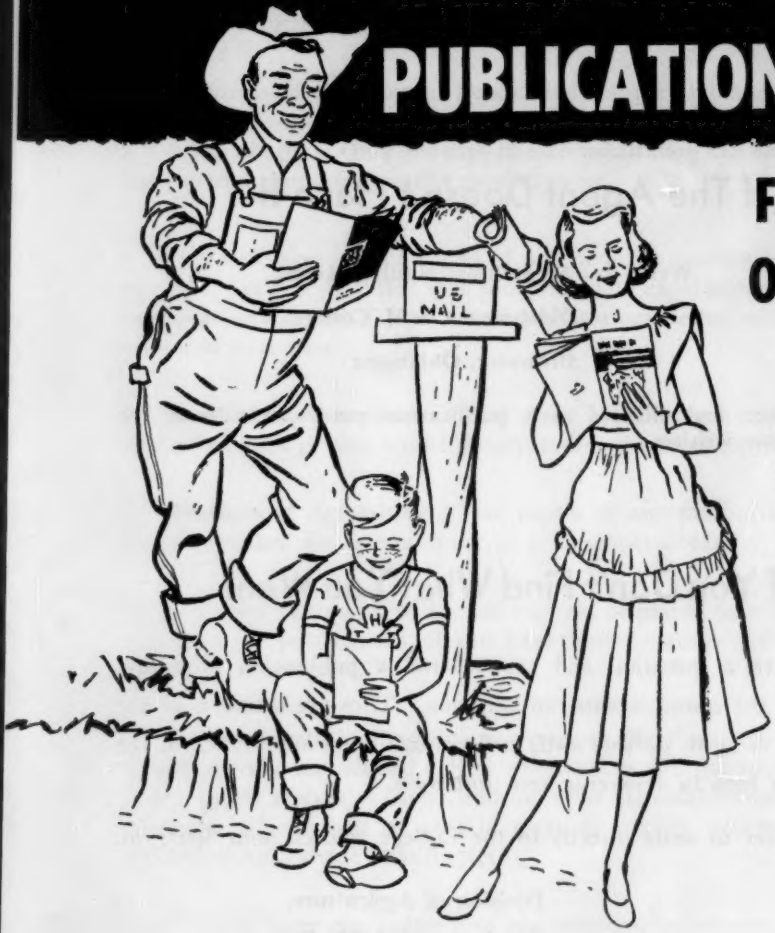
What's New in ..

No. 31
Jan., 1956

FARM AND HOME PUBLICATIONS

For Oklahoma



DIVISION OF AGRICULTURE
Oklahoma A. & M. College, Stillwater

How To Get Publications

Try Your County Agent First

Your county farm and home agents have most of the publications listed here. They also have other useful publications, including those issued by the U. S. Department of Agriculture. In most counties, the agent's office is at the county courthouse.

If The Agent Doesn't Have It

Write to—**Agriculture Mailing Room,**
Oklahoma A. & M. College,
Stillwater, Oklahoma

Give number and title of each publication you want. Please see page 4 before writing.

If You Don't Find What You Want

If you have a question, and cannot find a publication promising an answer, the county agents can help you. They are members of the Oklahoma A. & M. College staff, and can call upon any branch of the College for help in answering your questions.

If you prefer to write directly to the College, address your letter to:

Division of Agriculture,
Oklahoma A. & M. College,
Stillwater, Oklahoma

Please Read This Page
Before Ordering Publications

You Can Help Us Serve You

What's New is printed to help you select the publications you can use. Your attention to the following request will help us spend our funds most efficiently, and thereby help you most effectively.

Residents of Oklahoma: Publications of the Oklahoma A. & M. College are printed especially for you. Please feel free to ask for any which you can use. Only one copy of each publication can be sent unless some special reason is given for needing more.

Non-residents: Single copies of one or a few publications will be sent free; but it is suggested that your own state experiment station and extension service are likely to have publications better suited to conditions in your state.

Students of Agriculture: Please make use whenever possible of the files of bulletins in your school library, rather than writing for bulletins.

Teachers of Agriculture: Five copies of any publication will be gladly furnished for reference use in your school library.

Libraries: Libraries will, upon request, be placed on a mailing list to receive all publications of the Experiment Station and Extension Service as they appear.

Mailing Lists: Mailing lists to receive publications on a particular subject are not maintained. New publications are available through county agents as soon as issued, and the most up-to-date information on particular subjects will be sent in reply to inquiry addressed to the Division of Agriculture at Stillwater.

The foregoing suggestions are intended to prevent waste rather than to limit the distribution of publications. **If you can use a publication, do not hesitate to ask for it.**

Recent Publications

E-637. Turkey; Delicious, Enticing, Nutritious. Sewell G. Skelton and Mable Walker, 6 pp. folder, 3 figs.

Illustrations and pointers in this circular help the reader to recognize Grade A and Grade B birds. There are also hints on what size bird to buy and how to prepare and roast a turkey. A timetable shows how long to cook a turkey according to its weight.

E-636. Chicken; Selection, Care, Use. Sewell G. Skelton and Mabel Walker. 6 pp. folder; 3 figs.

Characteristics of Grade A and Grade B fryers are described in this circular, and pictures illustrate the two type birds. Also included is information on the amount of chicken to purchase per serving, and care of birds after purchase. Recipes for oven fried and barbecued chicken complete the folder.

E-635. Know Your Fertilizer. Wesley Chaffin and Gaylord Hanes. 16 pp., 12 figs., 1 table.

Many soils are deficient in one or more of the nutrients which are essential for plant growth. Fertilizers are intended to supply the nutrients required by crops, but which the soil cannot supply. The purpose of this circular is to acquaint the reader with fertilizers used in Oklahoma. Information covers fertilizer materials; fertilizer grades; functions of nitrogen, phosphorus, and other elements in plant growth; the importance of organic matter; residual effects of fertilizers; how crop yields can be increased; how to have your soil tested; methods of applying fertilizer; care of fertilizer equipment; and storing fertilizer on the farm. Also listed are other publications available on fertilizers.

E-634. A Feeding System for Laying Hens. Alex G. Warren. 8 pp., 3 figs.

This circular discusses the various feeding systems used by successful poultrymen under different conditions and outlines a workable system for the average farm poultry grower in Oklahoma. Included is information on rations, water, oyster shell and grit, feeding grains, egg mash, green feed, feeder space, and forced feeding.

E-632. Sprinkler Irrigation in Oklahoma. Robert B. Duffin. 16 pp., 8 figs.

The purpose of this circular is to help the farmer determine whether or not he should use a sprinkler system for irrigation. Points considered are the costs; advantages and limitations of sprinkler irrigation; water supply and water quality; and proper sprinkler system design. Several types of special fittings and nozzles are illustrated as well as other equipment needed for sprinkler irrigation.

E-630. Ten Steps in Controlling Rats. Newton W. Flora. 20 pp., 10 figs.

This bulletin emphasizes the seriousness of the rat problem as it exists in Oklahoma today and gives the most recent information available for controlling rats. Topics covered include: knowing the rat; determining how many rats there are in the area; eliminating all food sources for rats; getting rid of rat shelters; rat proofing; using poisoned baits; fumigation and gassing; trapping; and community action in controlling rats.

E-560. Improved Tillage Practices for Better Farming. Wesley Chaffin and Robert O. Woodward. 24 pp., 16 figs., 6 tables.

Objectives of this circular are to help the farmer prepare a suitable seedbed; destroy competing weed growth; conserve moisture, and increase the availability of plant nutrients in the soil. Information includes time of tillage (for both fall- and spring-planted crops); depth of tillage, tillage implements; maintaining a desirable struc-

ture; tillage for wind erosion control; deep plowing of sandy soils; and claypan and plowpan soils. Illustrations include those of equipment for different tillage uses.

E-551. Trees and Shrubs: A 4-H Club Manual. J C Garrett. 16 pp., 10 figs.

The purpose of this project is to encourage 4-H Club members to achieve the following objectives: observe and learn to identify trees and shrubs; plant and care for native and other trees and shrubs; and appreciate the use and value of trees and shrubs in landscape planting. Included are instructions for transplanting trees and shrubs.

E-549. Grading Eggs. Sewell G. Skelton. 12 pp., 12 figs. 2 pp. of four-color pictures showing different grade eggs.

Where eggs are sold on grade, one needs to be familiar with the requirements of the Oklahoma Egg Law. This circular summarizes grade standards as given in that law, and also describes the equipment and methods used in candling and grading eggs to meet those standards. Factors determining egg grades such as interior quality and shell conditions are also discussed.

E-546. Woody Plant Material for Oklahoma. J C Garrett. 8 pp. folder.

Trees, shrubs and vines for home grounds improvement are listed in this folder according to plant names, planting exposure, height, spacing requirements, and adaptation to areas of the State.

E-513. Taking Soil Samples. Robert O. Woodward. 8 pp., 9 figs.

A chemical soil analysis can be of considerable value in determining the fertilizer needs of a field. But the analysis can be no better than the sample taken. The purpose of this circular is to help the reader take an accurate soil sample. All the essential points in getting such a sample are included in this publication.

E-487. Fitting and Showing the 4-H Pig. Wayne W. Miller. 20 pp., 7 figs.

The purpose of this circular is to aid 4-H Club members enrolled in the pig project. Information includes preparing for the project, selecting the pig, keeping the pig healthy, feeding the pig, and training and showing the pig.

E-473. Water Systems for the Farm Home. C. V. Phagan. 32 pp., 27 figs., 6 tables.

Electric water systems are outlined from A to Z in this circular. Topics covered include: (1) Is your water supply adequate? (2) Safeguarding your water supply, (3) Types of pumps, (4) Size of pump, (5) The pressure tank, (6) Typical water-system installations, (7) The piping system, (8) Plans for the well house, (9) Wiring for the electric motor, and (10) Useful rules about water supplies. Also listed are other publications on water systems.

E-469. 4-H Small Grains Manual. Wesley Chaffin. 20 pp., 12 figs.

This circular is designed to help 4-H Club members conduct a successful 4-H small grain project. By participating in this project, you gain practical experience in seedbed preparation, planting, and harvesting small grain crops.

E-397. Tailoring. Ola Armstrong. 28 pp., 16 figs.

Some of the techniques used in tailoring are different from those used in making dresses, and they take skill and care to give the finished item the professional look. This bulletin is designed to help homemakers who plan to do some tailoring. Information included covers: what to buy; sewing and pressing equipment; materials needed; buying and fitting the pattern; laying the pattern, cutting and marking; stitches that will be needed; putting the garment together; buttonholes; buttons; pockets; the notch collar and facing; sleeves; hems; lining; interlining; lining sleeves; and skirts.

E-396. Sewing Tricks. Ola Armstrong. 12 pp., 9 figs.

The suggestions in this circular can make home sewing easier. Sewing short-cut hints include those for planning, equipment, fitting the garment, cutting, basting, stitching, hemming, putting in zipper plackets, and making use of your machine and its attachments.

E-265. Refinishing Furniture and Care of Wood. Grace L. Spivey. 16 pp., 3 figs.

This circular is designed to help you successfully refinish your furniture. Steps covered include taking off removable parts; making necessary repairs; removing old finishes; preparing surfaces for new finishes; staining, putting new finishes on new or old furniture, caring for brushes and woods, and using the right dust cloth.

B-464. Consumer Preferences for Dairy Products and Services in Oklahoma City. Leo V. Blakley, L. Don McMullin, and Kenneth B. Boggs. (November, 1955) 40 pp., 1 graph; 24 tables

The Oklahoma Agricultural Experiment Station recently undertook a study in Oklahoma City to determine consumer preferences for dairy products and services. Specific objectives were to: determine present purchases of milk and milk products as related to family size and family income; obtain opinions of consumers on the richness of milk used for drinking; and determine consumer preferences for the types of services attached to fluid milk. Findings of the study are found in the text of this bulletin, with data from the study being presented in 24 tables.

B-463. Vegetable Variety Trials—Summary Through 1954. F. A. Romshe and H. B. Cordner. (October, 1955) 16 pp., 9 tables.

Since climate is the primary factor determining how well a crop will grow, it is essential to consider local conditions and use the varieties best suited for the locality. To determine the vegetable varieties best adapted to Oklahoma, the Experiment Station conducts variety trials at several locations in the State each year. Plantings of several of the major vegetable crops are made and information is obtained as to their growth habit, season of maturity, quality, production, and other characteristics. Green snap beans, lima beans, cucumbers, muskmelons, onions, sweet corn, tomatoes, sweetpotatoes and watermelons are discussed in this bulletin as to the best adapted varieties in the Station Trials.

B-462. Creep-Feeding Spring Calves. A. B. Nelson, Glen Bratcher, R. D. Humphrey and R. W. MacVicar. (November, 1955) 20 pp., 7 tables.

For several years the Agricultural Experiment Station has been conducting tests to determine the value of creep-feeding spring beef calves. The latest tests were conducted in 1951-54. The general objective was to study the creep-feeding of calves born in early spring in an attempt to produce desirable slaughter calves for sale at weaning or after a short fattening period in dry lot. More specific objectives were to study the value of creep-feeding steer and heifer calves born in early spring and sold at weaning; creep-feeding followed by dry-lot fattening of steer calves; creep-feeding followed by wintering of heifer calves; and including molasses in the feed mixture for creep-feeding calves. Results of this latest study are summarized in this bulletin.

B-461. Huller-Cleaners for Castor Bean Harvesters. Leonard G. Schoenleber. (September, 1955) 12 pp., 8 figs., 1 chart.

The machine described in this publication is one of the first adaptations of mounting a huller-cleaner to castor harvesting machines. The purpose in the development of this machine was to make a compact, light-weight machine which could be easily mounted on castor bean harvesting equipment. It was designed to have a hulling capacity of three tons per hour while still maintaining a high hulling efficiency. This huller-cleaner is not manufactured at the present time. However, it can be constructed in a well-equipped machine

and tin shop. Detailed plans for the machine may be obtained by writing to the Oklahoma Agricultural Experiment Station.

B-460. Supplements of Different Protein and Vitamin-Mineral Content for Wintering Bred Yearling Heifers. A. B. Nelson, R. W. MacVicar, W. D. Campbell, and O. B. Ross. (September, 1955) 12 pp., 3 tables.

This report deals with the effect of various winter feed supplements on the growth and performance of bred yearling heifers intended for herd replacements. Results showed that bred yearling heifers fed a 40-percent supplement gained 56 pounds more during the winter than similar heifers fed a 20-percent protein supplement. However, yearly gains were essentially the same. The addition of a vitamin and mineral supplement failed to show conclusive evidence of any beneficial effect on the performance of bred yearling heifers.

B-459. The Changing Distribution of Medical Doctors in Oklahoma. John C. Belcher. (August, 1955) 24 pp., 7 tables.

The recent trend has been for the urban resident to be healthier than the rural dweller. Many writers associate this with the growing concentration of medical facilities and practitioners in metropolitan centers. Along this line, the Experiment Station undertook a study to determine the trends in the number and distribution of medical doctors in Oklahoma. Results are published in this bulletin, and include information on the trend in the number of physicians and the distribution of these physicians, factors affecting trends in distribution, and probable future trends in distribution.

B-458. Comparative Performance of Several Broiler Strains and Crosses With White or Near-White Plumage Color. George F. Godfrey, B. L. Goodman, George W. Newell, R. H. Thayer, and R. B. Thompson. (July, 1955) 12 pp., 3 tables.

The tests reported in this bulletin were designed to give some indication of the growth and yielding performance of several white and near-white plumaged broiler strains and crosses. The results apply *only* to the birds tested and under a given set of environmental conditions. It is suggested that hatcherymen and growers use the results of this trial only as an indication of performance of several strains or crosses which might be tested under their own environmental conditions.

T-58. Studies on Old World Bluestems. Robert P. Celarier and Jack R. Harlan. (October, 1955) 32 pp., 20 figs., 1 table.

The authors of this technical bulletin have recently established the largest experimental garden of Old World bluestems ever assembled in the Western Hemisphere. The materials in the garden have been studied from the standpoint of agronomic performance, morphological and cytological behavior, and potentialities in a breeding program. Findings are discussed in this bulletin. Certain features of the *Bothriochloa-Dichanthium* complex are discussed, and major emphasis is the morphological variation in the following species complexes: *Bothriochloa decipiens, B. intermedia, B. pertusa, B. ischaemum, B. venusta, Dichanthium sericeum, D. annulatum,* and *D. caricosum.* The differentiation of the various complexes is outlined in a key, and the readily distinguishable types within each complex are described. A few general comments on the agronomic performance of the different types are made.

T-57. Estimates of Consumptive-Use and Irrigation Water Requirements of Crops in Oklahoma. James E. Garton and Wayne D. Criddle. (October, 1955) 28 pp., 1 fig., 19 tables.

The purpose of this technical bulletin is to suggest figures on consumptive water requirements of crops for the various areas of Oklahoma using a method developed by Blaney of the U.S.D.A. and Criddle. Because of the limited information available on some of the factors, it is expected that refinement will result with use of the data by technicians under field conditions. The consumptive-use data re-

ported here will be improved, no doubt, as irrigation practices in Oklahoma are extended and more information becomes available. Main topics of the bulletin are: definition of terms; consumptive water requirements; and irrigation water requirement.

T-56. A Study of Rural Manpower in Southeastern Oklahoma. James D. Tarver. (September, 1955) 28 pp., 4 figs., 9 tables.

The Experiment Station in cooperation with the U.S.D.A. recently undertook a study to analyze and appraise the rural manpower situation of a large section of Southeastern Oklahoma. Objectives of the study were to determine: (1) the size, composition, and work patterns of the labor force; (2) the degree of underemployment of rural workers in that area; (3) the amount of additional manpower available if the workers' time was utilized, and (4) how much of the manpower might be used for part- or full-time labor in agriculture or industry in the area, in other areas of the State, or even in other states. Findings of the study are discussed in this technical bulletin as well as possible solutions to the prevailing situation.

T-55. Reaction of Small-Grain Varieties and Hybrids to Greenbug Attack. R. G. Dahms, T. H. Johnston, A. M. Schlehuber, and E. A. Wood jr. (September, 1955) 64 pp., 4 figs., 19 tables.

From 1947 to 1953, the Agricultural Experiment Station studied to find greenbug-resistant germ plasm for use in small-grain improvement. In the course of the work an effort was also made to obtain information on the inheritance of resistance. Several hundred varieties and hybrids of small grains were tested for resistance to the greenbug in the greenhouse, insectary, and the field. Resistance was determined in the greenhouse in separate tests for preference, tolerance, and fecundity, and in the insectary from the days required for the greenbugs to kill the plants and the growth made after infestation. Varieties that showed some resistance in the greenhouse were tested in the field to determine the reaction to natural infestations. Results of this study are presented in this technical bulletin.

T-54. Supplemental Phosphorus Requirement of Range Beef Cattle in North Central and Southeastern Oklahoma. A. B. Nelson. W. D. Gallup, O. B. Ross, and A. E. Darlow. (July, 1955) 32 pp., 8 tables.

A long-time experiment was initiated in 1947 to determine the supplemental phosphorus requirement of range beef cattle grazed in north central and in southeastern Oklahoma. Observations were made on the effect of three different levels of phosphorus intake on the growth and reproductive performance of the cattle of each area; the effect of phosporus intake on certain constituents of the blood of cattle; and the seasonal change in phosphorus and other constituents of native pasture grasses growing in each area. It was found that a mineral phosphorus supplement is beneficial for the production of beef cattle, both winter and summer, in southeastern Oklahoma. Also, in normal years, phosphorus supplementation of beef cattle is not necessary in north central Oklahoma. However, in dry years a phosphorus supplement will provide a margin of safety. The interpretation of the results of the study is based upon the performance of range beef cattle consuming known amounts of phosphorus during the winter and estimated amounts during the summer. Tests were conducted at Stillwater and Wilburton.

What the Letters Mean

Both letter and number should be used when asking for publications by mail.

The letter preceding the number of each publication indicates the general nature of the publication, as follows:

B—Bulletins. Recommendations based directly on research by the Experiment Station, together with "reasons why" as shown by data from tests made under Oklahoma conditions.

C—Station Circulars. Recommendations drawn from the research man's general knowledge.

E—Extension Circulars. A more inclusive discussion of some one phase of farming or homemaking.

MP—Miscellaneous Publications. A publication which is a different size than that of the usual bulletin series.

NC—North-Central Regional Publications. Reports of research by the Experiment Stations of several North-Central states, including Oklahoma.

OP—Oklahoma Pamphlets. A brief answer to some one specific question frequently asked by farmers and housewives.

SO—Southern Cooperative Series Bulletins. Reports of research by the Experiment Stations of several Southwestern states, including Oklahoma.

SW—Southwestern Regional Publications. Reports of research by the Experiment Stations of several Southwestern states, including Oklahoma.

T—Technical Bulletins. Usually of interest only to specialists in a particular field.

Publications Available

BUILDINGS AND FARM EQUIPMENT

Plans for farms buildings and farm labor-saving devices are available through county agents, who have catalogs of plans prepared by the Southern Farm Building Plan Service and the Midwest Farm Building Plan Service. These services are provided through cooperation of all state agricultural colleges in the respective regions.

Oklahoma Farm-fitted Plans, drawn especially to meet Oklahoma conditions, are available from the Oklahoma Farm Structures Service, A. & M. College, Stillwater. Please write the Service and tell the kind of building or equipment you wish to construct.

E-618. Your field sprayer.
E-599. The trench silo in Oklahoma.
E-593. Infra-red heat lamps for brooding pigs.
E-592. Regulating fertilizer distributors.
E-589. Brooding chicks with heat lamps or infra-red brooding.
E-573. Labor saving ideas for the farm.
E-541. Treated fence posts.
E-501. Line diagram method of setting implements.
E-490. Plans for temporary corn cribs.
E-481. Plans for Oklahoma farm homes.
E-450. Fence post production on Oklahoma farms.
E-438. Kitchen planning and arrangement.
E-339. Farm sewage disposal.
B-461. Huller-cleaners for castor bean harvesters.
B-422. The development of the Oklahoma brush-type cotton stripper.
B-395. A two-row castor bean harvester.

CANNING

(See "Food Preservation.")

CHILD CARE

(See "Clothing," "Foods and Nutrition," and "Homemaking.")

CLOTHING

E-561. Your clothing dollar.
E-495. Foundation garments.
E-416. Fitting garments.
E-397. Tailoring.
E-396. Sewing tricks.
E-390. Children's clothing.
E-379. The family mending.

DAIRYING

(See also "Buildings and Farm Equipment," "Feedstuffs," "Pasture and Hay Crops," and "Marketing.")

E-622. Dairying tips for farm homemakers.
E-612. 4-H dairy feeding and management manual.

E-578. Facing winter feeding problems.
E-491. Artificial breeding of dairy cattle in Oklahoma.
E-431. Home dairying.
B-464. Consumer preferences for dairy products and services in Oklahoma City.
B-451. Some pricing and regulatory effects of the federal order on the Tulsa milkshed.
B-443. Alfalfa vs. prairie hay for dairy calves.
B-438. Milk test variations in the Tulsa milkshed.
B-436. A comparison of the bulk and can systems for handling milk on farms.
B-423. The value of prairie hay for milk production.
B-403. Feeding tests with mungbean forage and seed in dairy rations.
B-401. Skunkweed flavor in cream and butter; a study of its cause and prevention.
B-400. Feeding tests with threshed peanut hay for dairy cattle.
T-52. The effect of aureomycin upon the growth of dairy cows when administered orally, subcutaneously and intramuscularly.
T-47. Studies of the manufacture of cream-type cheese made from condensed cream.

FARM ECONOMICS

(See also "Marketing" and specific crops and kinds of livestock.)

Current Farm Economics, published bi-monthly, discusses the economic situation as it affects Oklahoma agriculture. It is mailed regularly free of charge to those who ask to be placed on the mailing list.

B-431. Some factors influencing mineral rights separation in land sales.
B-429. Factors related to levels of living in Oklahoma farm families.
B-426. Relative efficiencies of single-unit and multiple-unit cooperative elevator organizations.
B-419. The place of cotton as a source of farm income in southwestern Oklahoma.
B-412. Oklahoma land market activity, 1945-1952.
B-238. Oklahoma farm price statistics in 1910-38.
MP-36. Comparative cost per unit of nutrient element for different fertilizers.
SO-41. Comparisons of one-variety with multiple-variety cotton and related economic considerations.

FEEDSTUFFS

(See also "Dairying," "Field Crops," "Pasture and Hay Crops," and "Livestock Production.")

E-620. Crops for silage.
OP-106. Silage is feed insurance.
B-462. Creep-feeding spring calves.
B-460. Supplements of different protein and vitamin-mineral content for wintering bred yearling heifers.
B-447. Producing and dehydrating sweet potatoes for livestock feed.
B-437. The value of 20-, 30-, and 40-percent protein supplements for wintering heifer calves.
B-423. The value of prairie hay for milk prodution.
B-403. Feeding tests with mungbean forage and seed in dairy rations.
B-400. Feeding tests with threshed peanut hay for dairy cattle.
C-137. Urea as a source of protein in livestock rations.
MP-43. Feeding and breeding tests with sheep, swine, and beef cattle, 1954-55.

FIELD CROPS

(See also "Buildings and Farm Equipment," "Farm Economics," "Insects and Other Pests," "Pasture and Hay Crops," and "Soils.")

Agronomy Day Reports, giving results of tests with different varieties of the various crops, and comparative value of different cultural methods and cropping practices, may be obtained by writing the College and stating the crop or practice in which you are interested.

Corn

E-591. Higher corn yields.
T-45. Effect of tree barriers on outcrossing in corn.
T-38. Effectiveness of distance and border rows in preventing outcrossing in corn.
T-36. The protein and crude carotenoid content of hybrid and open-pollinated corn; a summary.

Cotton

E-629. Fertilizer demonstrations; spring planted crops—1954.
E-615. Seed treatment for plant disease control.
E-613. Methods of applying fertilizers.
E-576. More dollars from cotton.
E-504. Cotton production. Variety and fertilizer recommendations.
E-500. Stripper harvesting of cotton.
E-435. Marketing cotton in Oklahoma.
E-349. 4-H cotton club manual.
B-454. Cotton variety tests, 1950-54.
B-442. Quality of Oklahoma cotton is influenced by lint coarseness.
B-441. Boll weevil and bollworm control with insecticides; results of a 5-year study with 14 dusts and sprays.
B-422. The development of the Oklahoma brush-type cotton stripper.
B-419. The place of cotton as a source of farm income in southwestern Oklahoma.
B-386. One-variety cotton in Oklahoma.
B-382. Mechanizing cotton for low-cost production.
B-357. Effects of auxiliary gin equipment on grades of cotton, western Oklahoma, 1947 and 1948.
SO-41. Comparisons of one-variety with multiple-variety cotton and related economic considerations.
T-50. Factors affecting cotton planting for mechanized production.
T-37. Oklahoma cotton variety tests, 1944 to 1948.

Seed Sources

A list of certified seed growers and the seeds available may be obtained by writing Oklahoma Crop Improvement Association, A. & M. College, Stillwater, Okla.

MP-32. How new crop varieties developed at the Oklahoma Agricultural Experiment Station reach growers.

Soil-improving Crops

See "Soils."

Sorghums

E-478. Sorghums for grain forage.
B-391. Darset; a combine-type darso.

B-355. Charcoal rot of sorghum.
B-340. Sirup sorghum varieties in Oklahoma sorghum performance tests 1943-1948.
T-55. Reaction of small grain varieties and hybrids to greenbug attack.
T-49. The chemical composition of sorghum roots and its relation to chinch bug injury.
T-44. Effect of the waxy gene on grain yields of sorghum.

Wheat

E-607. Results of small grain fertilizer demonstrations in Oklahoma.
E-596. Wheat is food.
E-569. How to protect farm stored wheat.
E-527. Wheat harvesting losses.
E-514. Wheat insects.
E-512. Oklahoma wheat improvement report.
E-488. Wheat varieties for Oklahoma.
E-484. Stinking smut of wheat.
E-467. Keep up production and save grain.
E-447. Wheat production in Oklahoma.
B-456. Wheat, oats, and barley in state-wide variety tests, 1950-54.
B-453. Concho winter wheat.
B-432. Wheat fertilization studies in western Oklahoma; progress report, 1951-52 and 1952-53.
B-426. Relative efficiences of single-unit and multiple-unit cooperative elevator organizations.

Other Crops

E-617. Small grain fertilizer demonstrations, Oklahoma—1954.
E-615. Seed treatment for plant disease control.
E-607. Results of small grain fertilizer demonstrations in Oklahoma.
E-552. Castor bean production.
E-410. Peanuts in Oklahoma.
B-457. Cimarron oats.
B-456. Wheat, oats, and barley in state-wide variety tests, 1950-54.
B-447. Producing and dehydrating sweet potatoes for livestock feed.
B-435. Response of winter oat varieties from winter and early spring seeding.
B-413. Dorman soybeans for Oklahoma.
B-404. Peanut varieties for Oklahoma: a summary of variety trials, 1944-1951.
B-403. Feeding tests with mungbean forage and seed in dairy rations.
B-400. Feeding tests with threshed peanut hay for dairy cattle.
B-361. A handbook of peanut growing in the southwest.
T-55. Reaction of small grain varieties and hybrids to greenbug attack.

FERTILIZERS

(See "Soils.")

FLOWERS AND HOUSE PLANTS

Information on handling flowers, house plants, and decorative plantings under Oklahoma conditions is available in unnumbered mimeographed leaflets. Write Department of Horticulture, Oklahoma A. & M. College, Stillwater, Okla., stating the information desired.

E-521. House plant manual.
B-439. Spring production of China asters in the greenhouse in Oklahoma.

FOOD PRESERVATION

E-603. A food preservation guide for Oklahoma families.
E-441. Home canning of meats.
OP-91. Storage of home canned and dehydrated foods.
OP-45. Home drying of fruits and vegetables.
OP-36. Storing fresh vegetables.
T-41. The effect of added salt on the deterioration of high-fat cream stored without refrigeration.

FOODS AND NUTRITION

E-637. Turkey: delicious, enticing, nutritious.
E-636. Chicken: selection, care, use.
E-624. Beef buying tips.
E-623. Cook beef nutritious and appetizing.
E-605. Use your broiler.
E-604. Planning better meals for the family.
E-595. Cooking fresh vegetables.
E-594. Cooking frozen foods.
E-584. Eat turkey the year round.
E-581. Let's eat chicken.
E-574. Meat—how to buy.
E-568. Cooking Oklahoma fish.
E-494. Meat cookery.
E-479. Tasty salads for good meals.
E-455. The egg and you.
E-425. Breadmaking in the home.
OP-108. Cooking dehydrated foods.
OP-68. One-dish meals.
B-264. Cured lamb for variety in Oklahoma farm meals.
T-41. The effect of added salt on the deterioration of high-fat cream stored without refrigeration.
SO-15. Composition of Southern peas.

FORESTRY

B-331. Cedar and pine as farm trees for Oklahoma.

4-H PUBLICATIONS

(See listing at end of bulletin)

FRUIT GROWING; PECANS

Variety recommendations based on annual tests under Oklahoma conditions are brought up to date each year and are available upon request. **Address Department of Horticulture, Oklahoma A. & M. College, Stillwater, Okla.**

E-511. Oklahoma pecans.
E-458. Bramble fruits.
E-457. Grapes in Oklahoma.
E-444. Fruit varieties recommended for Oklahoma.
E-432. Small fruits for the home garden.
B-450. Insecticides tests for pecan weevil control.
B-448. A summary of grape variety trials in Oklahoma.

B-427. Hayes and Patrick pecans—two new varieties for the cracking trade.
B-410. A summary of apple and peach variety trials in Oklahoma.
B-392. The pecan nut casebearer and its control.
T-13. The uneven ripening of concord grapes; chemical and physiological studies.

GARDENS

(See also "Vegetable Production.")

E-627. Using commercial fertilizer in your home garden.
E-586. Have fun, save money, be happy—grow your own garden.
E-487. Oklahoma garden planning guide.
E-486. Fall gardening.
E-448. Improving garden soil fertility.
B-463. Vegetable variety trials; summary through 1954.
B-421. Studies of plant production methods for vegetable crops: cabbage, tomatoes, onions, melons and cucumbers.
MP-37. Amount of fertilizer per row, for gardens.

GENERAL

MP-35. Pounds of fertilizer per acre for different concentrations.
_____ Sience serving agriculture: Report, Oklahoma Agricultural Experiment Station, 1950-1952.
_____ 50 Years' Progress: Annual Report, 1952, Oklahoma Agricultural Extension Service.

GRASSES

(See also "Pasture and Hay Crops.")

E-558. Know your native grassland.
B-455. Greenfield bermuda-grass.
B-452. Lahoma sweet sudan grass.
B-444. Southland bromegrass; a new variety for Oklahoma conditions.
B-423. The value of prairie hay for milk production.
Forage crops leaflet No. 3. Forage crops recommended for Oklahoma.
Forage crops leaflet No. 5. Tall fescue.
Forage crops leaflet No. 6. Blue panic.
Forage crops leaflet No. 7. Caucasian bluestem.
Forage crops leaflet No. 8. Smooth brome.
Forage crops leaflet No. 9. Annual lespedezas (Korean, Common, and Kobe).
Forage crops leaflet No. 13. Broomsedge.
Forage crops leaflet No. 15. Sudan grass.
Forage crops leaflet No. 17. Indian grass and Switch grass.
Forage crops leaflet No. 18. Side-oats grama.
MP-38. Amount of fertilizer for lawns.
T-58. Studies on Old World bluestems.

HOME GROUNDS

E-551. Trees and shrubs.
E-546. Woody plant material for Oklahoma.
E-545. Planting and care of lawns.
MP-38. Amount of fertilizer for lawns.

HOMEMAKING

(See also "Foods and Nutrition," "Clothing," "4-H," and "Human Relationships.")

E-601. Decorate with accessories.
E-597. Make your draperies and curtains.
E-563. Plan the buy, and buy.
E-503. Fun to make and fun to play.
E-498. Slip covers.
E-439. Better home lighting.
E-437. John and Mary reach teen-age.
E-423. Household equipment.
E-386. Re-upholstering at home.
E-348. Books to grow on.
E-265. Refinishing furniture and care of woods.
B-378. Washing and handling marquisette curtains.

HUMAN RELATIONSHIPS

E-626. The road to mental health.
E-616. A better rural life through neighborhood improvement.
E-606. Courtesy smooths the way.
E-587. Your family in the world of today.
E-570. Health on the home front.
E-528. The art of growing older.
E-524. Half-way up the stairs.
E-440. Living happily together.
B-459. The changing distribution of medical doctors in Oklahoma.
B-429. Factors related to levels of living of Oklahoma farm families.
B-383. Service relationships of farmers in Lincoln county, Oklahoma.
T-56. A study of rural manpower in southeastern Oklahoma.
T-46. A short scale for measuring farm family level of living: A modification of Sewell's socio-economic scale.

INSECTS AND OTHER PESTS

(See also specific crops, fruits, and kinds of livestock.)

E-630. Ten steps in controlling rats.
E-614. Household pest control.
E-514. Wheat insects.
E-499. Cotton insect control.
E-369. Chinchbug control practices for Oklahoma farms.
E-333. 4-H insect manual.
E-238. Beekeeping for beginners.
OP-79. Rodent control.
B-450. Insecticide tests for pecan weevil control.
B-441. Boll weevil and bollworm control with insecticides; results of a 5-year study with 14 dusts and sprays.
B-392. The pecan nut casebearer and its control.
B-353. The Texas harvester ant.
T-55. Reaction of small grain varieties and hybrids to greenbug attack.
T-49. The chemical composition of sorghum roots and its relation to chinch bug injury.

LIVESTOCK PRODUCTION

(See also "Dairying," "Feedstuffs," "Pasture and Hay Crops," and "Marketing.")

Beef Cattle

E-619. A cow and calf program for Oklahoma.
B-462. Creep-feeding spring calves.
B-460. Supplements of different protein and vitamin-mineral content for wintering bred yearling heifers.
B-447. Producing and dehydrating sweet potatoes for livestock feed.
B-437. The value of 20-, 30-, and 40-percent protein supplements for wintering heifer calves.
C-137. Urea as a source of protein in livestock rations.
MP-43. Feeding and breeding tests with sheep, swine, and beef cattle, 1954-55.
T-54. Supplemental phosphorus requirement of range beef cattle in north central and southeastern Oklahoma.
T-43. Blood composition of normal beef cattle.

Sheep

MP-43. Feeding and breeding tests with sheep, swine, and beef cattle, 1954-55.
T-53. A study of winter disorders in cows and ewes fed low-quality roughage.
C-137. Urea as a source of protein in livestock rations.

Swine

OP-51. Care of the brood sow during pregnancy.
B-447. Producing and dehydrating sweet potatoes for livestock feed.
B-415. Using hybrid vigor in producing market pigs.
MP-43. Feeding and breeding tests with sheep, swine, and beef cattle, 1954-55.

Miscellaneous

E-583. Rabbit production.

Livestock diseases and pests

E-470. Controlling cattle grubs.

MACHINERY

(See "Buildings and Farm Equipment.")

MARKETING

(See also specific crops and types of livestock.)

E-554. Broiler marketing.
E-549. Grading eggs.
E-463. Marketing fruits and vegetables.
E-462. Marketing dairy products in Oklahoma.
B-464. Consumer preferences for dairy products and services in Oklahoma City.
B-451. Some pricing and regulatory effects of the federal order on the Tulsa milkshed.
B-426. Relative efficiencies of single-unit and multiple-unit cooperative elevator organizations.
SO-41. Comparisons of one-variety with multiple-variety cotton and related economic considerations.

ORCHARDS

(See "Fruit Growing.")

PASTURE AND HAY CROPS

(See also "Feedstuffs," "Field Crops," "Grasses," and specific types of livestock.)

E-566. Your soil; know what it needs.
E-515. Sweet clover.
E-507. Lespedeza. A good pasture plant.
E-497. Alfalfa, queen of forage crops.
E-400. 4-H legume manual.
B-455. Greenfield bermuda-grass.
B-452. Lahoma sweet sudan grass.
B-444. Southland bromegrass; a new variety for Oklahoma conditions.
B-423. The value of prairie hay for milk production.
B-403. Feeding tests with mungbean forage and seed in dairy rations.
B-401. Skunkweed flavor in cream and butter; a study of its cause and prevention.
B-400. Feeding tests with threshed peanut hay for dairy cattle.
Forage crops leaflet No. 3. Forage crops recommended for Oklahoma.
Forage crops leaflet No. 4. Harvesting and cleaning grass seed in Oklahoma.
Forage crops leaflet No. 5. Tall fescue.
Forage crops leaflet No. 6. Blue panic.
Forage crops leaflet No. 7. Caucasian bluestem.
Forage crops leaflet No. 8. Smooth brome.
Forage crops leaflet No. 9. Annual lespedezas (Korean, Common and Kobe).
Forage crops leaflet No. 13. Broomsedge.
Forage crops leaflet No. 15. Sudan grass.
Forage crops leaflet No. 17. Indian grass and Switch grass.
Forage crops leaflet No. 18. Side-oats grama.
MP-35. Pounds of fertilizer per acre for different concentrations.
T-58. Studies on Old World bluestems.

PECANS

(See "Fruit Growing.")

PLANT DISEASES

(See "Field Crops," "Fruit Growing," and "Vegetable Production.")

POPULATION

(See "Human Relationships.")

POULTRY PRODUCTION

E-634. A feeding system for laying hens.
E-555. Broiler production.
E-449. Culling the laying flock.
E-417. Poultry parasites.
E-350. Poultry management for 4-H club members.
B-458. Comparative performance of several broiler strains and crosses with white or near-white plumage for 4-H members.
B-424. Papers and feeders vs. feeders alone for starting chicks.
B-394. Silver Oklabars; their origin and present development.
B-393. B-complex vitamin allowances for Oklahoma broiler rations.
B-240. A home-made egg cooler for farm use.
C-120. Planning a year-'round poultry green feed program for Oklahoma.

SOILS

(Conservation, Fertility Maintenance, and Cropping Systems.)

E-629. Fertilizer demonstrations; spring planted crops—1954.
E-625. Liming soils for better farming.
E-613. Methods of applying fertilizers.
E-598. Land appreciation training schools and judging contests in Oklahoma.
E-588. Higher crop yields with lime, fertilizers and legumes.
E-572. Terrace maintenance.
E-571. Development of surface irrigation.
E-566. Your soil; know what it needs.
E-560. Improved tillage practices for better farming.
E-557. Pasture and range judging.
E-518. Soil and water conservation.
E-513. Taking soil samples.
E-509. Know your soil.
E-476. Your three acres.
E-412. Soil improvement program in Oklahoma.
E-249. Irrigation in Oklahoma.
OP-26. Phosphorus.
B-432. Wheat fertilization studies in western Oklahoma; progress reports, 1951-52. and 1952-53.
B-360. Salt accumulation in irrigated soils; the prospect for Oklahoma.
MP-42. Soils of Wagoner county, Oklahoma.
MP-38. Amount of fertilizer for lawns.
MP-37. Amount of fertilizer per row, for gardens.
MP-36. Comparative cost per unit of nutrient element for different fertilizers.
MP-35. Pounds of fertilizers per acre for different concentrations.
MP-28. Soil associations of Pawnee county, Oklahoma.

VEGETABLE PRODUCTION

Variety recommendations based on annual tests under Oklahoma conditions are brought up to date each year and are available upon request. Address: Department of Horticulture, Oklahoma A. & M. College, Stillwater, Okla.

E-475. Recognition and control of vegetable diseases.
E-443. Vegetable varieties for Oklahoma.
E-196. Home vegetable garden.
OP-105. Maintaining summer garden production.
B-463. Vegetable variety trials; summary through 1954.
B-421. Studies of plant production methods for vegetable crops: cabbage, tomatoes, onions, melons and cucumbers.
C-107. Edible soybeans for Oklahoma.
MP-37. Amount of fetrilizer per row, for gardens.
MP-35. Pounds of fertilizers per acre for different concentrations.
SO-15. Composition of Southern peas.

WATER SUPPLIES

E-632. Sprinkler irrigation in Oklahoma.
E-628. Water in Oklahoma.
E-580. Farm ponds for household water supply.
E-473. Water systems for the farm home.
T-57. Estimates of consumptive-use and irrigation water requirements of crops in Oklahoma.
T-51. Measuring runoff rates with rectangular highway culverts.

WEED CONTROL

E-453. Bindweed eradication in Oklahoma.

4-H PUBLICATIONS—(for project work)

(See also various subjects listings.)

E-631. Team demonstrations in soil; water, and range conservation.
E-600. 4-H club leader's manual.
E-585. 4-H calf manual.
E-565. Better grooming for 4-H girls.
E-564. Better grooming for 4-H boys.
E-559. 4-H news writing manual.
E-557. Pasture and range judging.
E-551. Trees and shrubs; a 4-H club manual.
E-547. Better buying for 4-H club members.
E-543. Oklahoma 4-H club pecan project.
E-539. 4-H home demonstration IX.
E-538. 4-H home demonstration VIII.
E-537. 4-H home demonstration VII.
E-536. 4-H home demonstration VI.
E-535. 4-H home demonstration V.
E-534. 4-H home demonstration IV.
E-533. 4-H home demonstration III.
E-532. 4-H home demonstration II.
E-531. 4-H home demonstration I.
E-530. Junior leadership for 4-H members.
E-518. 4-H club soil and water conservation.
E-469. 4-H small grain manual.
E-461. 4-H instructions for junior poultrymen.
E-445. Fitting and showing the 4-H pig.
E-436. 4-H health demonstration.
E-400. 4-H legume manual.
E-316. 4-H horticulture projects.

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